

SIDORIN, I.I., zashluchennyy deyatel' nauki i tekhniki, doktor tekhn.nauk, prof.; GENEIN, M.D., kand.tekhn.nauk; RYZHOV, N.M., inzh.

Residual stresses in the surface layer of gear-wheel teeth and their effect on the durability of gears. Vest.mashinostr. 45  
no.2:64-67 F '65.

(MIRA 18:4)

ASSONOV, A.D., doktor tekhn. nauk; SIDORIN, I.I., doktor tekhn.  
nauk, prof., retsenzent; KOZLOVSKIY, I.S., kand. tekhn.  
nauk, dots., red.

[Modern methods of heat treatment] Sovremennye metody ter-  
micheskoi obrabotki. Moskva, Izd-vo "Mashinostroenie,"  
1964. 188 p. (MIRA 17:7)

BOLKHOVITINOV, Nikolay Feodosiyevich (1894-1964); SIDORIN, I.I.,  
doktor tekhn. nauk, prof., retsenzent

[Study of metals and their heat treatment] Metallovedenie  
i termicheskaya obrabotka. Izd.6., dop. i perer. Moskva,  
Mashinostroenie, 1965. 503 p. (MIRA 18:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im.  
N.Ye.Baumana (for Sidorin).

(N) L 8912-66 EMT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(1)/T/EWP(t)/EWP(k)/EWP(h)/EWP(h)  
ACC NR: AP5027592 EWP(1) SOURCE CODE: UR/0145/65/000/009/0031/0033  
JD/TM/EM/RM  
AUTHOR: Sidorin, I. I. (Doctor of technical sciences); Zyabrev, A. A. (Assistant)  
ORG: MVTU im. N. E. Bauman, Moscow  
TITLE: Machine for testing polymer materials for elongation strength and creep in aggressive media at high temperatures  
SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1965, 31-33  
TOPIC TAGS: polymer, solid physical property, test facility, CREEP, ELONGATION  
ABSTRACT: A special machine has been designed for testing polymer materials which permits the use of diagrammatic recording of the results of the tests; this is not possible in the case of testing metals (See Fig. 1)  
Card 1/3 UDC: 51.6

L 8912-66

ACC NR: AP5027592

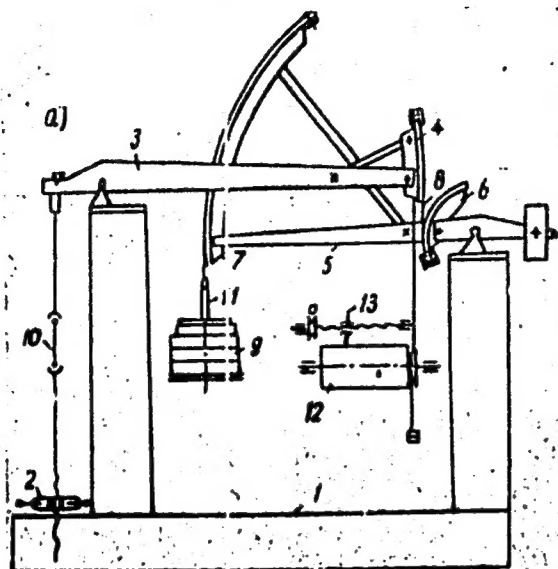


Fig. 1

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L 8912-66

ACC NR: AP5027592

The machine is of the lever type with stepwise loading of the sample from 0 to 3000 kgf. It consists of a welded stand 1, in the lower part of which is fastened a mechanism for moving lower clamp 11. The upper clamp, by means of a rod and a conical prism, is suspended from the short arm of upper lever 3, which is attached to the forward support of the stand. The short and long arms of the upper abance have lengths corresponding to 100 and 1000 mm, or a 1:10 ratio. The long arm of the upper lever ends with segment 4, the radius of which is equal to the length of the arm, or 1000 mm. On the rear support of the stand is attached lower lever 5, the short and long arms of which are 150 and 750 mm long, in a 1:5 ratio, the radii of which are equal to 150 and 750 mm, respectively. Segment 4 of the upper lever is joined to segment 6 of the lower lever by a band of 60S2 with a thickness of 0.35 mm and a width of 50 mm. Weights are suspended to segment 7 on the same band. The power of the lever system is 50 times, so that a load of 60 kilograms creates a force of 3000 kgf on the sample. Tubular samples with a diameter of 24 mm and a length of 310 mm with an inside diameter of 20 mm are attached with clamps of the wedge type. The aggressive medium, consisting of a mixture of acids of the desired concentration, is poured inside the sample. The load on the sample can be varied from 0 to 300 kgf. Orig. art. has: 2 figures.

SUB CODE: MT/ SUBM DATE: 16Mar65/ ORIG REF: 000/ OTH REF: 000

Card 3/3

ACC NR: AP6033649

SOURCE CODE: UR/0145/66/000/008/0090/0095

AUTHOR: Sidorin, I. I. (Doctor of technical sciences; Professor); Dontsova, S. G.  
(Aspirant)

ORG: MVTU im. N. E. Bauman

TITLE: Phase transformation and dimensional stability of ( $\alpha + \beta$ ) titanium alloys

SOURCE: IVUZ. Mashinostroyeniye, no. 8, 1966, 90-95

TOPIC TAGS: *METAL AGING, PHASE TRANSITION,*  
titanium alloy, alloy structure stability, ~~alloy dimensional stability,~~  
alloy stabilization treatment/OT4 alloy, VT8 alloy, VT3 1 alloy

ABSTRACT: To determine the optimum conditions for structure stabilizing heat treatment of  $\alpha + \beta$  titanium alloys, phase transformations occurring with volume changes induced by prolonged aging have been investigated in OT4[U.S. RS110B], VT8[U.S. C135A] and VT3-1[U.S. T115A] titanium alloys. Hot-rolled alloys in the as-rolled condition or after a standard strengthening heat treatment were aged for up to 2000 hr at temperatures ranging from -70 to 180C. All dimension changes in test specimens were analogous in all the investigated alloys, and all were found to be associated with the cumulative additions of specific volumes resulting from transformations of the metastable  $\beta$ -phase and hydride transformation of the excess hydrogen liberated from the  $\alpha$ -phase. OT4 alloy with a structure stable in the 20-100C range can be obtained by refrigeration at -70C for 1 hr following annealing at 900C. The stabilization

Card 1/2

UDC: 669.2.01

ACC NR: AP6033649

treatment for heat-treated VT8 alloy consists of aging at 100C for 4—5 hr followed by refrigeration at -70 for 1 hr. The VT3-1 alloy structure requires the most complex stabilization treatment. It includes aging at 50C for 10 hr, refrigeration at -70C for 1 hr followed by aging at 180C for 3 hr and a second refrigeration at -70C for 1 hr. Of all the investigated alloys, the VT8 alloy had the best dimensional stability.

SUB CODE: 11/ SUBM DATE: 11Apr66/ ORIG REF: 003/ OTH REF: 001

Cerd 2/2

1. INTRODUCTION

1.1. -- "INVESTIGATION OF THE EFFECT OF CERTAIN FACTORS ON THE WEAR AND TEAR OF  
CATERPILLER TREADS." (MOSKOW AUTOMOTIVE INSTITUTE 1951 (DISSERTATION FOR  
THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES))

1.2. VICHERNAYA MOSKVA, JANUARY-DECEMBER 1952

SIDORIN, M. L.

SIDORIN, V. I., and I. F. GOLUBEV,

Smolistost'sosny i eli i kolichestvennoe opredelenie smoly v dravesine  
khvoynykh. Moskva, 1931. 37 p., illus. (S. S. Trudy, no. 89)

Bibliography: p. 33-34.

Summary in English.

Title tr.: Resin of pine and fir and quantitative determination of the  
resin content of soft wood.

GA311.M65 no.89

SO: Aeronautical Science and Aviation in the Soviet Union, Library of Congress,  
1955

SIDORIN, M. I.

AM

SIDORIN, (M. I.), ALEXANDROVSKAYA (Mme Z. V.), USPENSKAYA (Mme M. S.), & SHIBKOVA (Mme Z. N.). Влияние поздней севки на зараженность озимой пшеницы. [Effect of late autumn sowing of spring Wheat on the degree of infection with loose smut.]—*Pl. Prot. Leningr.*, 1935, 7, pp. 130-135, 1935. [English summary. Received May, 1936.]

The results of experiments from 1932 to 1934, inclusive, in the region of Moscow showed that when seed-grain of Luteana 062 spring wheat, naturally infected with loose smut (*Ustilago tritici*), was sown in experimental plots in late autumn (end of November and beginning of December), the resulting crops were entirely free from the smut, while the crops raised from the same seed-grain sown in the following spring showed from 2.1 to 3.2 per cent. infection with the smut. The autumn-sown plants developed more vigorously than spring-sown and gave a slightly better yield.

ASH-514 METALLURGICAL LITERATURE CLASSIFICATION

PA 36/49T43

USSR/Medicine - Plant Physiology Jan/Feb 48  
Medicine - Light, Effects

"Photochemical Activity of the Sun's Rays Passing  
Through and Reflected by Plant Greens," M. I.  
Sidorin, Inst Plant Physiol Imeni K. A. Timiryazev,  
Acad Sci USSR, Moscow, 4 pp

"Botan Zhur" Vol XXXIII, No 1 p. 95-102-

Experiments conducted on the premise that those  
rays of the sun which disintegrate chlorophyll  
also affect the decomposition of CO<sub>2</sub>. Determined  
that direct solar radiation directed on one leaf  
of a bean or lettuce plant had noticeable action on

36/49T43

USSR/Medicine - Plant Physiology Jan/Feb 48  
(Contd)

chlorophyll. Direct solar radiation reflected  
from living green leaves also affected chloro-  
phyll.

SIDORIN, M. I.

36/49T43

1. SIDORIN, M. I.
2. USSR (600)
4. Photosynthesis
7. Absorption of diffused solar radiation by leaves of agricultural plants. Bot. zhur. 37 no. 6: 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

MIABNECV, G.A., elektromekhanik, N.I., elektromekhanik

Change in the network of the ZhR-5 transceiver. Avtom.,  
telem. i svyaz. 4 no.1:40 Ja '65. (MIRA 18:2)

L. Moskovsko-izbrannaya distantsiya Moskovskoy dorogi.

85-58-5-10/38

AUTHOR: Sidorin, V., Hero of the Soviet Union, Chief, Gor'kiy Oblast Aeroclub (Gor'kiy)

TITLE: We Strengthen Our Contacts With Primary Organizations  
(Ukreplyayem svyazi s pervichnymi organizatsiyami)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 5, p 6 (USSR)

ABSTRACT: The author refers to the goal set by the 4th All-Union DOSAAF Convention to draw no less than 10 percent of DOSAAF members into military and technical training teams and units annually. One of the means of stimulating scientific interest in aviation among the membership is to organize evening meetings attended by aviation sportsmen-lecturers. A meeting called by the Komsomol members of the Gor'kiy Oblast Aeroclub at the Gor'kovskiy zavod imeni V.I. Lenina (Gor'kiy Plant imeni V.I. Lenin), which has the largest DOSAAF membership in the city, drew an attendance of 600 young workers who listened to talks by pilots, glider pilots and cadets of the club. The following personalities are

Card 1/2

85-58-5-10/38

We Strengthen Our Contacts (Cont.)

mentioned: R. Naumov and N. Kozin, Komsomol members and pilot-instructors, and technician V. Tonkovskiy who supervise 40 model-airplane building teams in the city.

ASSOCIATION: Gor'kovskiy oblastnoy aeroklub (Gor'kiy Oblast Aeroclub)

AVAILABLE: Library of Congress

Card 2/2      1. Aviation - USSR

GOVORUKHIN, G.; BOCHAROV, B (Tambov); SIDORIN, V. geroy Sovetskogo Soyuz  
(g. Gor'kiy); BELYAYEV, N., (Tula)

Let the springs of Communist Youth League initiative gush forth  
more strongly! Kryn. rod. 9 no.5:6-7 My '58. (MIRA 11:6)

1. Predsedatel' komiteta Dobrovol'nogo obshchestva sodeystviya armii,  
aviatsii i flotu zavoda "Serp i molot" (for Govorukhin). 2. Instruktor-  
letchik oblastnogo aerokluba (for Bocharov). 3. Nachal'nik oblastnogo  
aerokluba (for Sidorin).

(Communist Youth League)

BELOV, I.I.; SIDORIN, V.G.; KORZHIKHINA, T.P.; SHOLOKHOVA, N.P.;  
ZHURAVLEV, D.P., red.; GAVRILOV, A.N., red.; FEDOROV, N.A.,  
red.; IZHBOLDINA, S.I., tekhn. red.

[Risen from ruins; documents and papers about the reconstruction and development of Volgograd, 1943-1960] Podnityi iz ruin; sbornik dokumentov i materialov o vosstanovlenii i razvitii Volgograda, 1943-1960 gg. Volgograd, Volgogradskoe knizhnoe izd-vo, 1962. 369 p. (MIRA 16:2)

1. Kommunisticheskaya partiya Sovetskogo So'юза. Volgogradskiy oblastnoy komitet. Partynnyy arkhiv.  
(Volgograd--Civic improvement)

LEVIN, B.I.; ANPILOGOV, R.G.; BOGATYREV, A.F.; BRYKIN, S.V.; GOL'DMAN,  
M.S.; DAVYDOV, G.V.; ZADORIN, B.M.; ZERENINOV, A.M.; LAPUSHKIN,  
A.D.; LINDEN, V.I.; MURAV'YEV, V.I.; OGANESOV, I.S.; PETROV,  
M.I.; SIDORIN, V.K.; SOLDATOV, Ye.G., obshchiy red.; KARAMYSHEV,  
I.A., red.; PESKOVA, L.N., red.; KHITROV, P.A., tekhn.red.

[Manual for studying the economics of construction in the  
transportation industry] V pomoshch' izuchaiushchih ekonomiku  
transportnogo stroitel'stva. Moskva, Gos.transp.shel-dor.  
isd-vo, 1959. 271 p. (MIRA 12:7)  
(Construction industry) (Transportation)

SIDORIN, V.K.

Aid to students of seminars in the applied economics of  
construction for the transportation industry. Transp.stroi.  
9 no.10:62-63 0 '59. (MIRA 13:2)  
(Transportation---Buildings and structures)

LINDE, Dmitriy Pavlovich; SIDORIN, V.M., red.; MATVEYEV, G.I., tekhn.red.

[Principles of analysis of ultrahigh-frequency electron-tube  
generators] Osnovy rascheta lampovykh generatorov SVCh.  
Moskva, Gos. energ. izd-vo, 1959. 430 p. (MIRA 12:2)  
(Oscillators, Electron-tube)

NIKOLAYEV, A.M.; GISIN, I.B.; ~~SIDORIN, Ye. S.~~; SOROKIN, V.V.

[Instructions on cheese making] Sbornik tekhnologicheskikh  
instruktsii po proizvodstvu syrov. Moskva, Pishchepromizdat,  
1950. 182 p. (MIRA 12:3)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye syrodel'noy  
promyshlennosti. (Cheese--Varieties)

SIDORIN, YA.S

Lactose

Let's increase the output of milk sugar. Mol. prom. 13 No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress. September, 1952.  
Unclassified.

ACCESSION NR: AP4041421

S/0179/64/000/003/0122/0126

AUTHOR: Sidorin, Ya. S. (Leningrad)

TITLE: Experimental investigation of anisotropy of fiberglass-reinforced plastics

SOURCE: AN SSSR. Izv. Mekhanika i mashinostroyeniye, no. 3, 1964, 122-126

TOPIC TAGS: plastics, glass reinforced plastics, fiberglass reinforced plastics, fiberglass reinforced laminate

ABSTRACT: Results of experimental investigation of properties of a cold-cured fiberglass-reinforced laminate (21 layers per cm) consisting of an ASTT(b)-S<sub>2</sub> satin-woven fiberglass cloth and a PN-1 unsaturated polyester resin (50 to 50 ratio by weight) are presented. A regularity pattern in variation of mechanical properties of the laminate was studied in relation to the angle  $\phi$  between the warp direction and longitudinal axis of the specimen. Tubular (30 mm i.d., 3 mm wall thickness) and flat 20 x 3 mm specimens were tested at  $\phi = 0$  to 90° in 15° intervals. The elasticity modulus, Poisson's ratio, ultimate

Card 1/2

ACC NR: AK0032027

(N)

Monograph

UR/

(Candidate of Technical Sciences)

Smirnova, Muza Konstantinovna; Sokolov, Boris Pavlovich; Sidorin, Yakov Sergeyevich; Ivanov, Aleksey Pavlovich

Strength of fiberglass reinforced plastic ship hulls (Prochnost' korpusa sudna iz stekloplastika) Leningrad, Izd-vo "Sudostroyeniye", 1965. 331 p. illus., biblio. 2700 copies printed.

TOPIC TAGS: shipbuilding engineering, plastic, laminated plastic, reinforced plastic, plastic strength

PURPOSE AND COVERAGE: This book is intended for workers of design and planning organizations, enterprises, and scientific-research institutes; it can also be used by students attending shipbuilding institutes of higher education and technical schools. The book describes the peculiarities of fiberglass-reinforced plastic as a new construction material, and presents data on its physicommechanical properties and methods for determining them. In addition, the basic principles for designing and calculating the strength of fiberglass-reinforced-plastic ship hulls is presented. Chapters I, IV, V, and VI were written by M. K. Smirnova on the basis of experiments carried out by her together with B. P. Sokolov, L. N. Vinogradova, M. V. Mikhaylov, I. A. Yelsukov, V. M. Tsyganenko, N. N. Makarova, G. P. Gur'yanov, N. A. Shadrinova, and L. O. Vinogradova. Chapter II

Card 1/2

UDC: 629.12.011.678.5

ACC NR: AM6032827

was written by Ya. S. Sidorin and A. P. Ivanov with the assistance of S. F. Glasov. Chapter III was written by B. P. Sokolov. There are 76 references, 34 of which are Soviet.

TABLE OF CONTENTS (Abridged):

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Ch. III. Effect of reinforcing on the strength and deformation characteristics of fiberglass-reinforced plastic -- 159

Ch. IV. Basic principles for designing joints of ship hulls from fiberglass-reinforced plastic -- 212

Ch. V. Several results of strength tests of hull structures of fiberglass-reinforced plastic -- 220

Ch. VI. Calculation methods and strength standards -- 266

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SUB CODE: 11, 13/ SUBM DATE: 10Jul65/ ORIG REF: 033/ OTH REF: 044/

Card 2/2

L 29681-66 EWP(k)/EWT(m)/ENP(t)/ETI IJP(c) JD/HW  
ACC NR: AP6011133 SOURCE CODE: UR/0424/66/000/001/0120/0124

AUTHORS: Rybakina, O. G. (Leningrad); Sidorin, Ya. S. (Leningrad)

ORG: none

TITLE: Experimental investigation of the relationships of plastic disintegration of metals

SOURCE: Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 1, 1966, 120-124

TOPIC TAGS: metal test, metal stress, titanium, copper, alloy steel, aluminum alloy/  
O9G2 steel, 12Kh2NZMA steel, 14KhNZMD steel

ABSTRACT: The plastic disintegration of the following alloys was investigated: aluminum alloy, steel O9G2, steel 12Kh2NZMA, steel 14KhNZMD, titanium alloy, and red copper. The investigation supplements the results of V. V. Novozhilov (0 1 plasticeskoy razrykhleni PMM, 1965, No. 4). Schematics of the experimental installations are presented, and the experimental results are shown graphically (see Fig. 1). Photomicrographs of polished sections of specimens are also presented. The plastic deformation  $\epsilon$  obeys the relationship

$$d\epsilon = \alpha dt^p$$

where  $\alpha$  is the coefficient of viscosity and  $d\epsilon^p$  the length of the plastic

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L 29681-66

ACC NR: AP6011133

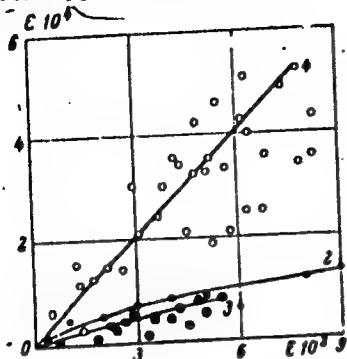


Fig. 1. Volume deformation vs longitudinal deformation.  
2 - steel 09G2; 3 - steel 12Kh2N2ZhMA; 4 - titanium alloy.

deformation path. Thanks are given to V. D. Yelkin, N. I. Loginov, and R. P. Kuzyayeva for their participation in the experimental work. Orig. art. has: 1 table and 9 figures.

SUB CODE: 11/

SUBM DATE: 08Oct65/ ORIG REF: 003/

OTH REF: 001

Card 2/2  $\checkmark$



ACC NR: AP7004770

SOURCE CODE: UR/0413/67/000/001/0085/0085

INVENTOR: Romanov, V. P.; Fedorets, O. L.; Sidorin, Yu. M.

ORG: none

TITLE: Scanning unit of an automatic readout device. Class 42, No. 190059

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 85

TOPIC TAGS: optic scanning, data readout, *computer output unit*

ABSTRACT: The proposed scanning unit of an automatic reading device contains an image-into-electric-signal conversion system. To increase the reliability of image perception, the following elements are used: a two-dimensional fitter containing a shift register; a video-signal summing d-c amplifier; a reference-signal summing d-c amplifier; and a comparator. The input weighting resistors of the video-signal d-c amplifier are connected with the outputs of the shift register cells, the input weighing resistors of the reference signal d-c amplifier are connected with the source of the reference signal, and outputs of both d-c amplifiers are connected with the inputs of the comparator. Orig. art. has: 1 figure. [JP]

Card 1/2

UDC:681.142.07:621.391.88

ACC NR: AP7004770

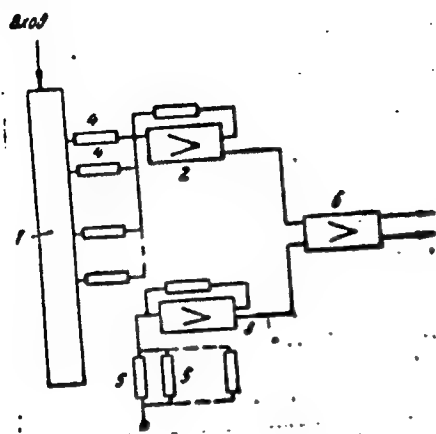


Fig. 1. Scanning unit

1 - Register; 2 - video-signal d-c amplifier; 3 - reference-signal d-c amplifier; 4,5 - weighing resistors; 6 - comparator.

SUB CODE: 09/ SUBM DATE: 21May64/

Card 2/2

SIDORINA, F. I.

"Treatment of Purulent Processes with Emulsion of Syntomycin," Vol. 9, 1953,  
Soviet Medicine.

Candidate of Medical Sciences, Department of General Surgery of the First Medical  
Institute of Lenin's Order, Moscow.

B-78891, 13 Sep 1954

**STRUCHKOV, V.I.; SIDORINA, F.I.**

Present clinical and therapeutic aspects in suppurative mastitis.  
Sovet. med. 17 no. 1:8-11 Jan 1953. (CLML 24:1)

1. Professor for Struchkov; Candidate Medical Sciences for Sidorina.
2. Of the Clinic for General Surgery (Director — Prof. I. G. Rafanov, Active Member of the Academy of Medical Sciences USSR), Moscow Order of Lenin Medical Institute.

SIDORINA, F.I., kandidat meditsinskikh nauk; STRUCHKOV, V.I., professor, zaveduyushchiy; BUTENKO, O.B., glavnyy vrach.

Synthomycin emulsion therapy of acute suppurative processes. Sov.med. 17  
no.9:21-23 S '53. (MLRA 6:9)

1. Kafedra obshchey khirurgii lechebnogo fakul'teta I Moskovskogo ordena  
Lenina meditsinskogo instituta na baze bol'nitsy im. Medsantrud (for  
Struchkov and Sidorina). 2. Bol'nitsa im. Medsantrud (for Butenko).  
(Antibiotics) (Suppuration)

SIDORINA, F.I., kandidat meditsinskikh nauk

Dicumarol therapy of extremital thrombophlebitis. Sov. med. 18  
no.6:18-22 Jo '54. (MLA 7:6)

1. Iz kafedry obshchey khirurgii (sav.-prof. V.I.Struchkov)  
lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo  
instituta na baze bol'nitsy imeni Medsantrud (glavnyy vrach  
O.B.Butenko)

(THROMBOPHLEBITIS

\*leg, ther., dicoumarin)

(LEG, diseases

\*thrombophlebitis, ther., dicoumarin)

(COUMARIN, derivatives

\*bishydroxycoumarin, ther. of thrombophlebitis of leg)

SIDORINA, F.I. (Moskva)

Effect of anticoagulants on the dynamics of changes and absorption time  
of a thrombus. Eksp. khir. 3 no.6:63 N-D '58. (MIRA 12:1)  
(THROMBOSIS (ANTICOAGULANTS (MEDICINE)))

V

USSR / Pharmacology. Toxicology.  
Anticoagulants.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13900

Author : Sidorina, F.I.

Inst : -

Title : Changes of Blood Coagulation Under the Influence  
of the Native Anticoagulant Dicoumarin in Patients  
with Thrombophlebitis of the Extremities.

Orig Pub : Sov. meditsina, 1958, No. 1, 52-58

Abstract : 205 patients in various stages of thrombophle-  
bitis of the extremities and treated with di-  
coumarin (I) were examined. In the first 3 days  
0.1 g of I was prescribed each twice daily; in  
subsequent days, 0.025 g each three times daily.  
Blood coagulation (according to Burkner) bleeding

Card 1/2

SIDORINA, F.I., kand.med.nauk

Clinical picture, diagnosis and treatment of thrombophlebitis  
of the extremities [with summary in English]. Khirurgia 34  
no.10:108-114 0 '58 (MIRA 11:11)

1. Iz kafedry obshchey khirurgii lechebnogo fakul'teta  
(zav. - prof. V.I. Struchkov) i Moskovskogo ordena Lenina meditsinskogo  
instituta imeni I.M. Sechenova na baze bol'nitsy imeni Medsantrud  
(glavnyy vrach A.P. Timofeyeva).  
(THROMBOPHLEBITIS,  
clin. picture, diag. & ther. (Rus))

SIDORINA, F.I., kand.med.nauk (Moskva)

Current status of the etiology and pathogenesis of thrombophlebitis of the extremities. Klin.med. 36 no.11:96-101 N '58 (MIRA 11:12)

1. Iz kafedry obshchey khirurgii (zav. - prof. F.I. Struchkov) lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova na baze Bol'nitsy imeni Medsantrud (glavnyy vrach A.P. Timofeyeva).

(THROMBOPHLEBITIS, etiol. & pathogen.

extremities, review (Rus))

(EXTREMITIES, blood supply  
review (Rus))

SIDORINA, F.I., kand.med.nauk

Treatment of the surgeon's hands with a diocide solution. Khim.  
i med. no.10:31-32 '59. (MIRA 13:2)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.I. Struchkov) lecheb-  
nogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta  
na baze bol'nitsy imeni Medsantrud (ispolnyayushchiy obyazannosti glav-  
nogo vracha A.P. Timofeyeva).

(SURGERY, ASEPTIC AND ANTISEPTIC)

(DIOCIDE)

SIDORINA, F.I., kand.med.nauk

Surgical treatment of patients with thrombophlebitis of  
subcutaneous veins of the lower extremities. Khirurgia  
35 no.3:80-87 Mr '59. (MIRA 12:8)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.I.Struchkov)  
lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo  
instituta imeni I.M.Sechenova na baze bol'nitsy imeni Medsantrud  
(glavnyy vrach A.P.Timofeyeva).

(VASCULAR DISEASES, PERIPHERAL

thrombophlebitis of subcutaneous veins of  
lower extremities, surg. (Rus))

(THROMBOPHLEBITIS

of subcutaneous veins of lower extremities,  
surg. (Rus))

SIDORINA, F.I., kand.med.nauk (Moskva)

Thrombophlebitis and its treatment. Fel'd. i akush. 26 no.12:  
5-8 D '61. (MIRA 14:12)

(PHLEBITIS)

STRUCHKO', Viktor Ivanovich, prof.; BAZHENOVA, A.P., doktor med. nauk;  
TUMANSKIY, V.K., doktor med. nauk; GRIGORYAN, A.V., kand.med.  
nauk; KACHKOV, A.P., kand.med.nauk; MARSHAK, A.M., kand.med.nauk;  
MURAV'YEV, M.V., kand.med.nauk; SIDORINA, F.I., kand.med.nauk;  
FEDOROV, B.P., kand.med.nauk; VINUGRADOV, V.V., red.; PETROVA,  
tekhn. red.

[Surgery for supuration] Gnoinaya khirurgiya; rukovodstvo dlia  
vrachei. Moskva, Medgiz, 1962. 357 p. (MIRA 15:11)  
(SUPPURATION) (SURGERY, OPERATIVE)

STRUCHKOV, V.I., prof., laureat Leninskoy premii; SIDORINA, F.I.,  
kand. med. nauk

Clinical aspects and treatment of acute pancreatitis. Sov.  
med. 26 no.4:59-63 Ap '63. (MIRA 17:2)

1. Iz kafedry obshchey khirurgii (sav. - prof. V.I. Struchkov)  
lechebnogo fakul'teta I Moskovskogo meditsinskogo instituta  
imeni I.M. Sechenova na baze gorodskoy bol'nitsy No.23  
imeni Medsantrud (glavnyy vrach A.N. Lobanova). 2. Chlen-  
korrespondent AMN SSSR (for Struchkov).



S/079/60/030/007/003/020  
B001/B063

AUTHORS: Seryakov, G. V., Vaks, S. A., Sidorina, L. S.

TITLE: Study of the Phase Equilibria "Liquid - Vapor" in Systems Formed by  $TiCl_4$  With Acid Chlorides of Mono- and Trichloroacetic Acids

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 7, pp. 2130-2133

TEXT: According to data of various publications acid chlorides of chloroacetic acids may be present in commercial  $TiCl_4$  obtained by the chlorination of oxides in the presence of coal (Refs. 1,2). In the paper under abstraction, the authors study the phase equilibria "liquid - vapor" in the binary systems  $TiCl_4 - CH_2ClCOCl$  and  $TiCl_4 - CCl_3COCl$  in order to determine the effect of rectification used in purifying  $TiCl_4$  from these admixtures. At the same time, the authors determined the vapor pressures of mono- and trichloroacetyl chlorides, as well as of titanium tetrachloride at various temperatures. The acid chlorides of mono- and

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Study of the Phase Equilibria "Liquid - Vapor"  
in Systems Formed by  $\text{TiCl}_4$  With Acid Chlorides  
of Mono- and Trichloroacetic Acids

S/079/60/030/007/003/020  
B001/B063

trichloroacetic acids were prepared by reacting thionyl chloride with the corresponding chloroacetic acids. The acid chlorides obtained were rectified twice. In the further course of their work, the authors made use of the fractions boiling within  $\pm 0.1^\circ$  at constant temperature. Pure  $\text{TiCl}_4$  was obtained from the commercial product by a double rectification. In the first rectification, this pure  $\text{TiCl}_4$  was liberated from vanadium by means of copper chips. The fraction of  $\text{TiCl}_4$  which distilled off at constant temperature, was subjected to the second rectification. The fraction, which distilled at constant temperature, was finally used. The products purified in this way are colorless liquids. The boiling temperatures of  $\text{TiCl}_4$ ,  $\text{CH}_2\text{ClCOCl}$ ,  $\text{CCl}_3\text{COCl}$  amounted to  $136.5^\circ$ ,  $106^\circ$ ,  $118.1^\circ$  at a pressure of 760 torr. The phase equilibria "liquid - vapor" and the vapor pressure determination of the pure components were studied by a method devised by L. A. Nisel'son and G. V. Seryakov (Ref. 3). The boiling points of  $\text{TiCl}_4$ ,  $\text{CH}_2\text{ClCOCl}$ ,  $\text{CCl}_3\text{COCl}$  are tabulated in Table 1, and illustrated in

Card 2/3

Study of the Phase Equilibria "Liquid - Vapor"  
in Systems Formed by  $TiCl_4$  With Acid Chlorides  
of Mono- and Trichloroacetic Acids

S/079/60/030/007/003/020  
B001/B063

the coordinates  $\log P$ ,  $1/T$  in Fig. 1; they fit the data of Ref. 4. The vapor pressures of the compounds examined in the above temperature range are represented by equations. Experimental data for the "liquid-vapor" equilibrium in the above systems are given in Table 2 and in the diagrams of Figs. 2,3. The relative volatilities were determined from these data, and the diagrams (Fig. 4) for the relative volatility and liquid composition are constructed. The system  $TiCl_4 - CH_2ClCOCl$  differs markedly from the ideal one. This system apparently contains an azeotropic mixture (87%  $CH_2ClCOCl$ ) and boils at  $105^\circ$ . The system  $TiCl_4 - CCl_3COCl$ , on the contrary, practically coincides with the ideal one. There are 4 figures, 2 tables, and 4 references: 1 Soviet and 1 German.

ASSOCIATION: Nauchno-issledovatel'skiy i proyektnyy institut redko-metallicheskey promyshlennosti (Scientific Research and Planning Institute for Industrial Rare Metals)

SUBMITTED: June 10, 1959

Card 3/3

SERYAKOV, G.V.; VAKS, S.A.; SIDORINA, L.S.

Investigating vapor-liquid phase equilibrium in systems formed  
by titanium tetrachloride with chloranhydride of mono- and  
trichloroacetic acids. Titan i ego splavy no.5:220-224 '61.  
(MIRA 15:2)

(Vapor-liquid equilibrium)  
(Titanium compounds)


S/078/61/006/003/022/022  
B121/B208

AUTHORS: Vaks, S. A., Seryakov, G. V., Nisel'son, L. A.,  
Sidorina, L. S.

TITLE: Liquid-vapor equilibrium in systems formed from the tetra-  
chlorides of titanium, silicon, and carbon

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 3, 1961, 756-758

TEXT: The equilibrium between liquid and vapor (at 760 mm Hg) in the  
systems  $\text{TiCl}_4 - \text{SiCl}_4$ ,  $\text{TiCl}_4 - \text{CCl}_4$ , and  $\text{CCl}_4 - \text{SiCl}_4$  was studied  
refractometrically at 20°C. The tetrachlorides had been purified by  
distillation, and the titanium and silicon chlorides also chemically.  
Data on the liquid-vapor equilibrium in the systems  $\text{TiCl}_4 - \text{SiCl}_4$ ,  
 $\text{TiCl}_4 - \text{CCl}_4$ , and  $\text{CCl}_4 - \text{SiCl}_4$  at 760 mm Hg are summarized in a table.  
The refractive index in the systems  $\text{TiCl}_4 - \text{CCl}_4$  and  $\text{TiCl}_4 - \text{SiCl}_4$   
was found to be a linear function of the composition. In the system



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Liquid-vapor equilibrium...

S/078/61/006/003/022/022  
B121/B2 08

$\text{TiCl}_4$  -  $\text{SiCl}_4$ , a negative deviation from Raoult's law was found on the side of the lower-boiling component. The system  $\text{TiCl}_4$  -  $\text{CCl}_4$  is nearly ideal, while the system  $\text{CCl}_4$  -  $\text{SiCl}_4$  distinctly differs from the ideal state with respect to the course of the interface between liquid and vapor. There are 4 figures, 1 table, and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. ✓

SUBMITTED: August 2, 1960

Card 2/3

SIDORINA, L. V.

"The Efficacy of Various Phosphate Fertilizers in Grey Desert Soils of Central Asia."  
Min. Chemical Industry USSR, Sci. Inst. of Fertilizers and Insecticides and  
Fungicides imeni Professor Ya. V. Samoylov, Moscow, 1955. (Dissertation for the  
Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

SIDORINA, L.V.

Using anion-exchange substances for determining available  
phosphorus in soil. Pochvovedenie no. 2:96-100 F '61.  
(MIRA 14:2)

1. Nauchnyy institut po udobreniyam i insektogungisidam.  
(Soils--Phosphorus content)

SOKOLOV, A.V.; SIDORINA, L.V.

Reactions of phosphate ion exchange in soils. Agrokhimiia no.4:52-58  
Ap '64.

1. Nauchno-issledovatel'skiy institut po udooreniiam i insektofun-  
gitsidam imeni Ya.V. Samoylova, Moskva.

PAVLOVSKIY, L.L.; MATYUK, F.M.; SIDORINA, N.I.

Optimum conditions for drying enamels by heat radiation.  
Trakt. i sel'khoz mash. 31 no. 7:40-41 J1 '61. (MIRA 14:6)  
(Enamel and enameling)

PAVLOVSKIY, L.L.; Prinimali uchastiye: MATYUK, F.M.; GOGOLINA, L.I.;  
SERGUNINA, V.A.; SIDORINA, N.I.; LIBERMAN, A.B.; ROMANOVA, L.V.;  
PROTSENKO, T.V.; YAKUNINA, L.G.

Selecting the optimum system for drying paint coatings in  
thermosetting dryers. Lakokras.mat. 1 ikh prim. no.2:45-48  
'64. (MIRA 17:4)

AZARENKO, B.S., kand. tekhn. nauk; AFANAS'YEV, V.D., kand. tekhn. nauk;  
 BROVMAN, M.Ya., inzh.; VAVILOV, M.P., inzh.; VEINIK, A.B., inzh.;  
 GOLUBKOV, K.A.; GUBKIN, S.I., akademik [deceased]; GUFEVICH, A.Ye.,  
 inzh.; DAVYDOV, V.I., kand. tekhn. nauk; DROZD, V.G., inzh.;  
 YEREMOLAYEV, N.F., inzh.; ZHUKOVICH-STOSHA, Ye.A., inzh.; KIRILIE,  
 N.M., kand. tekhn. nauk; KOVYNEV, M.V., inzh.; KOGOS, A.M., inzh.;  
 KOROLEV, A.A., prof.; KUGAYENKO, M.Ye., inzh.; LASKIN, A.V., inzh.;  
 LEVITANSKIY, B.A., inzh.; LUGOVSKIY, V.M., inzh.; MEYEROVICH, I.M.,  
 kand. tekhn. nauk; OVCHAROV, M.S., inzh.; PASTERNAK, V.I., inzh.;  
 PERLIN, I.L., doktor tekhn. nauk; POBEDIN, I.S., kand. tekhn. nauk;  
 ROKOTYAN, Ye.S., doktor tekhn. nauk; SAF'YAN, M.M., kand. tekhn.  
 nauk; SMIRNOV, V.V., kand. tekhn. nauk; SMIRNOV, V.S.; SOKOLOVSKIY,  
 O.P., inzh.; SOLOV'YEV, O.P., inzh.; SILORKEVICH, M.A., inzh.;  
 TRET'YAKOV, Ye.M., inzh.; TRISHEVSKIY, I.S., kand. tekhn. nauk;  
 KHENKIN, G.N., inzh.; TSELIKOV, A.I.; GOROBINCHENKO, V.M., red.  
 izd-va; GOLUBCHIK, R.M., red. izd-va; RYMOV, V.A., red. izd-va;  
 DOBUZHINSKAYA, L.V., tekhn. red.

[Rolling; a handbook] Prokatnoe proizvodstvo; spravochnik. Pod  
 red. E.S.Rokotiana. Moskva, Metallurgizdat. Vol.1. 1962. 743 p.

(MIRA 15:4)

1. Akademiya nauk BSSR (for Gubkin). 2. Chlen-korrespondent Akademii  
 nauk SSSR (for Smirnov, Tselikov).

(Rolling (Metalwor))—Handbooks, manuals, etc.)

SIDOREVICH, M.M.

32

PHASE I BOOK EXPLOITATION

SOV/5985

Rokotyan, Ye. S., Doctor of Technical Sciences, ed.

Prokatnoye proizvodstvo; spravochnik (Rolling Industry; Handbook) v. 1. Moscow, Metallurgizdat, 1962. 743 p. Errata slip inserted. 9250 copies printed.

Authors of this volume: B. S. Azarenko, Candidate of Technical Sciences; V. D. Afanas'yev, Candidate of Technical Sciences; M. Ya. Brovman, Engineer; M. P. Vavilov, Engineer; A. B. Vernik, Engineer; K. A. Golubkov, Engineer; S. I. Gubkin, Academician, Academy of Sciences USSR; A. Ye. Gurovich, Engineer; V. I. Davydov, Candidate of Technical Sciences; V. G. Drozd, Engineer; N. F. Yermolayev, Engineer; Ye. A. Zhukovich-Stopha, Engineer; N. M. Kirilin, Candidate of Technical Sciences; M. V. Kovynov, Engineer; A. M. Kogos, Engineer; A. A. Korolev, Professor; M. Ye. Kugayenko, Engineer; A. V. Laskin, Engineer; B. A. Levitanskiy, Engineer; V. M. Lugovskoy, Engineer; I. M. Moyerovich, Candidate of Technical Sciences; M. S. Ovcharov, Engineer; V. I. Pasternak, Engineer; I. L. Perlin, Doctor of Technical Sciences; I. S. Pobedin, Candidate of Technical Sciences; Ye. S. Rokotyan, Doctor of Technical Sciences; M. M. Saf'yan, Candidate of Technical Sciences; V. V. Smirnov, Candidate of Technical Sciences; V. S. Smirnov, Corresponding Member, Academy of Sciences USSR; O. P. Sokolovskiy,

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Rolling Industry; Handbook

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SOV/5985

Engineer; O. P. Solov'yev, Engineer; M. A. Sidorkevich, Engineer; Ye. M. Trst'yakov, Engineer; I. J. Trishevskiy, Candidate of Technical Sciences; G. N. Khonkin, Engineer; and A. I. Tselikov, Corresponding Member, Academy of Sciences USSR. Introduction: A. I. Tselikov, Corresponding Member, Academy of Sciences USSR; Ye. S. Rokotyan, Doctor of Technical Sciences; and L. S. Al'shevskiy, Candidate of Technical Sciences.

Eds. of Publishing House: V. M. Gorobinchuk, R. M. Golubchik, and V. A. Rymov;  
Tech. Ed.: L. V. Dobuzhinskaya.

**PURPOSE:** This handbook is intended for technical personnel of metallurgical and machine-building plants, scientific research institutes, and planning and design organizations. It may also be useful to students at schools of higher education.

**COVERAGE:** The fundamentals of plastic deformation of metals are discussed along with the theory of rolling and drawing. Methods of determining the power consumption and the forces in rolling with plane surface or grooved rolls are .

Card 2/10

Rolling Industry; Handbook

SOV/5985

12. Transfer-cooler	590
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14. Stand for inspecting and measuring the wheels	590
Ch. 25. Manufacture of Structural Shapes on Roll-Forming Machines (A. V. Laskin, M. M. Sidorkevich, V. I. Pasternak, V. I. Davydov)	
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4. Roll groove design for roll-forming machines	607
5. Roll-forming machines for machine-building plants	612
Ch. 26. Drawing Machines (A. M. Kogos) [Abridged]	
1. Introduction	617
2. Classification of drawing machines	618
3. Drawing Benches	618
4. Tube-drawing benches	629
5. Drawing blocks and continuous drawing machines	631

Card 16/19



SIDORKIN, A.S., kand.med.nauk

Advantage of resection of the stomach by the Billroth I  
technic in peptic ulcer. Khirurgiya 37 no.2:39-44, P '61.

(MIRA 14:1)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta  
skoroy pomoshchi imeni N.V. Sklifosovskogo (glavnyy khirurg -  
prof. B.A. Petrov, dir. - zasluzhennyy vrach USSR M.M. Tarasov).  
(STOMACH—SURGERY)

NOVOSELOVA, N.V.; RUBIN, A.G.

Determination of alcohol concentration in human blood in clinical practice under emergency first aid conditions. Sov. med. 27 no.8:101-103 Ag '64. (MIRA 18:3)

1. Institut skoroy pomoshchi imeni Sklifosovskogo (dir. M.M. Tarasov), Moskva.

1. Sidorkin, F.

2. USSR (COO)

4. Agricultural Machinery

7. Let's mechanize hard jobs on livestock farms, Sel'. stroi., 7 No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. 1955, 9.

1. Russian technology in the port of Volgograd. Rech. transp.  
24 no.6:18-19 '65. (MIRA 12:8)

1. Stanbly inzh-tekholog Volgozredskogo porta.

MESTECHKIN, M.M.; SIDORKIN, O.D.

Molecular diagrams of nonalternant hydrocarbons. Zhur. struk. khim.  
6 no.3:436-442 My-Je '65. (MIRA 18:8)

1. Mordovskiy gosudarstvennyy universitet.

AUTHOR: Sidorkin, V., Deputy School Director SOV/27-58-12-14/23  
TITLE: Training of Foremen for the Overhead Network (Podgotovka  
masterov kontaktnoy seti)  
PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958. Nr 12,  
pp 19-20 (USSR)  
ABSTRACT: Attention is drawn to the shortage of skilled foremen for  
training the electricians required for carrying out the  
general plan of the TsK KPSS and USSR Council of Ministers  
for the electrification of railroads. The plants of the  
Ministerstvo transportnogo stroitel'stva (Ministry for Building Means of Transportation), particularly the Vsesoyuznyy  
trest "Transelektromontazh" (All-Union Trust "Transelektromontazh") are endeavoring to give assistance, which, however,  
has proved insufficient. Moreover, these foremen are not  
familiar with instruction work and some foremen of practical  
training from the Moscow schools have a poor knowledge of  
railway transportation problems. In Dec 1957, the overhead  
network section traction sub-stations and STsB, attached to  
the Central Methodological Bureau of the Glavnoye upravleniye  
trudovykh rezervov (Main Administration of Labor Reserves),  
decided to request the city and oblast' administrations of

Card 1/2

Training of Foremen for the Overhead Network

SOV/27-58-12-14/23

Labor Reserves to arrange special courses for foremen. These 2½ month courses have been conducted since April. The article contains the curricula and programs of these courses.

ASSOCIATION: Zheleznodorozhnoye uchilishche Nr 6, Moskovskaya oblast'  
(Railroad School Nr 6, Moscow Oblast')

Card 2/2

22(1)

SOV/27-59-4-10/28

AUTHORS: Fedorov, I., Chief Technologist, and Sidorkin, V., Deputy School Director

TITLE: A Training Ground for the Overhead Network System

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 4, pp 15-16 (USSR)

ABSTRACT: During the beginning 7-Year Plan, huge main lines will have to be electrified. The problem of expanding the training of electricians by the system of State Labor Reserves is, therefore, one of special significance. The author points out the difficulty of organizing the practical training of overhead network electricians which primarily takes place on the electrical installation trains of the Vsesoyuznyy montazhnyy trest elektrifikatsii zheleznodorozhnogo transporta (All-Union Installation Trust for the Electrification of Railroads). The present curricula, composed by the Glavnoye upravleniye trudovykh rezervov (Main Administration of Labor Reserves), provide that practical training in the 2nd class take place every other day, which complicates

Card 1/2

SINEL'NIKOV, K.D.; SAFRONOV, B.G.; SIDORKIN, V.A.; TRUBCHANINOV,  
S.A.

[Motion of plasma clots across a magnetic field] Dvizhenie  
plazmennyykh sgustkov poperek magnitnogo polia. Khar'kov,  
Fiziko-tekhn. in-t AN USSR, 1960. 183-200 p.  
(MIRA 17:3)

L 24048-66 EWT(1)/EWT(m)/T IJP(c) GS/IT/GW

ACC NR: AT6008846

SOURCE CODE: UR/0000/65/000/000/0086/0086

AUTHOR: Lavrent'yev, O. A.; Nemashkalo, B. A.; Ovcharenko, L. I.; Safronov, B. G.; Sidorkin, V. A.

ORG: none

TITLE: Measuring the energy of recharged particles in an electromagnetic trap

SOURCE: AN UkrSSR. Magnitnyye lovushki (Magnetic traps). Kiev, Naukova dumka, 1965, 86-88

TOPIC TAGS: hydrogen plasma, charged particles, magnetic trap, charge exchange, ionized plasma, ion energy

ABSTRACT: The authors measure <sup>2/</sup>the energy of a stream of recharged particles emerging from the end aperture in an electromagnetic trap. A diagram of the experimental equipment is given together with a brief description. Mass analysis of the stream of recharged particles emerging from the trap showed that it consists almost entirely of atomic hydrogen. Curves are given showing the energy distribution of ionized atoms with a residual gas pressure in the trap of  $2 \cdot 10^{-5}$  mm Hg and injected electron energies of 2 kev and 2.8 kev. The density of the energy distribution for the recharged particles is related to the density of the energy distribution for the stream of ions in the trap by the formula

$$N_0(U) = \sigma_{10}(U) n_0 R N_i(U).$$

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L 24048-66

ACC NR: AT6008846

where  $\sigma_{10}$  is the charge exchange cross section;  $n_0$  is the density of the residual gas;  $R$  is the radius of the region occupied by the plasma. This relationship may be used to establish the energy distribution of the stream of ions circulating in the trap from the distribution of neutral ions. By narrowing the time interval for registration of the recharged particles, the variation in the intensity of a stream of ionized atoms of a given energy may be plotted as a function of time, which means that the same may be done for the intensity of ions of a given energy in the trap. It is shown that there is a hot plasma with an average ion energy of the order of 400 ev in an electromagnetic trap when the injected electrons have an energy of the order of 2 kev. The decay time after the injection pulse is 50-80  $\mu$ sec which agrees with the previously measured lifetime for hot electrons in this trap. A comparison of the lifetimes for ions with various energies shows large losses of low energy ions. This is apparently due to an increase in the cross section of resonance charge exchange for hydrogen ions at low energies. Orig. art. has: 3 figures.

SUB CODE: 20/

SUBM DATE: 20Oct65/

ORIG REF: 003/

OTH REF: 000

Card 2/2 *dda*

ACCESSION NR: AT4025313

S/0000/63/000/000/0233/0236

AUTHORS: Lavrent'yev, O. A.; Nemashkalo, B. A.; Ovcharenko, L. I.;  
Safronov, B. G.; Sidorkin, V. A.

TITLE: Measurement of potential well in a plasma by means of the  
time of flight of charged particles

SOURCE: Diagnostika plazmy\* (Plasma diagnostics); sb. statey.  
Moscow, Gosatomizdat, 1963, 233-236

TOPIC TAGS: plasma research, ionized plasma, plasma source, plasma  
injection, plasma confinement

ABSTRACT: A method is proposed for measuring the potential of a  
plasma during the time of flight of a beam of charged particles  
through the plasma. In the case of a dense plasma, when the Debye-  
screening radius is small and the electric fields in the plasma are  
concentrated in a narrow boundary layer, methods using beams of

Card 1/4

ACCESSION NR: AT4025313

charge particles entail experimental difficulties. The operation of the experimental setup is such that after the injection pulse is completed, the potential of the grid of the plasma gun becomes lower than the cathode potential, and the electrons are locked in a trap. The plasma is produced as a result of ionization of the residual gas by the electrons. The potential well is measured by passing a modulated beam of krypton ions through the plasma. The time dependence of the plasma potential is determined from oscillograms which show the phase shift of the ions in the beam. Orig. art. has: 4 figures and 6 formulas.

ASSOCIATION: None

SUBMITTED: 19Oct63

DATE ACQ: 16Apr64

ENCL: 02

SUB CODE: ME >

NR REF SOV: 001

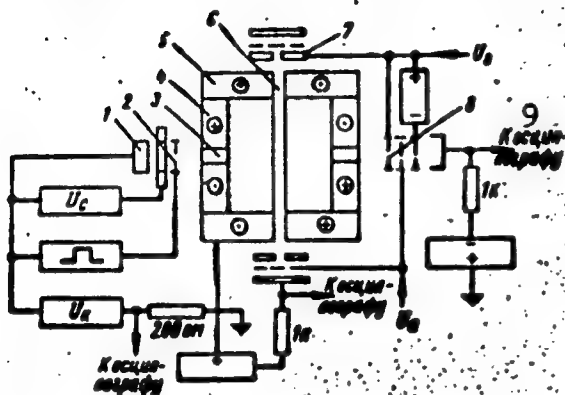
OTHER: 001

Card 2/4

ACCESSION NR: AT4025313

ENCLOSURE: 01

Diagram of experimental set-up:



- 1 - cathode, 2 - grid,
- 3 - axial openings,
- 4 - solenoid, 5 - solenoid,
- 6 - annular slots
- 7 - electrostatic mirror
- 8 - grid

Card 3/4

SIDORKIN, V. I. Cand Med Sci — (diss) "On the pharmacology of  
Monotropa hipopitys." Sverdlovsk, 1957, 10 pp, (Min Health, RSFSR.  
Sverdlovsk State Med Inst), 200 cop.es, (KL, 29-60, 127)

FEDOROV, Ivan Sergeyevich; SIDORKIN, Vladimir Ivanovich; KOPTEVSKIY, D.Ye.,  
red.; RAKOV, S.I., tekhn.red.

[Concise information on the erection of contact networks] Kratkie  
svedeniia po tekhnologii montazha kontaktnoi seti; posobie masteru  
proizvodstvennogo obucheniia zheleznodorozhnykh i tekhnicheskikh  
uchilishch. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat,  
1960. 91 p. (MIRA 13:9)  
(Electric networks) (Electric railroads--Current supply)

SIDORKIN, Vladimir Ivanovich; FIDOROV, Ivan Sergeyevich; YESHCHIN, S.B., nauchnyy red.; KOPTZVSKIY, D.Ya., red.; TOKER, A.M., tekhn.red.

[Electrician engaged in erecting contact networks; methods manual for the supervisor in charge of practical training]  
Elektromonter po montazhu kontaktnoi seti; metodicheskoe posobie masteru proizvodstvennogo obucheniia. Moskva, Vses. uchebno-pedagog.izd-vo Proftekhizdat, 1960. 177 p.  
(MIRA 13:11)

(Electric railroads--Wires and wiring)

IVASHNEV, Lev Ivanovich; SIDORKIN, Vladimir Ivanovich; VASHURIN, A.A.,  
red.; ENTIN, Yu.S., red.; PEREDERIY, S.P., tekhn.red.

[Manual on equipping sites for training contact-network  
electricians in railroad and technical schools] Rukovodstvo  
po oborudovaniyu uchebnykh poligonov dlia obucheniia elektro-  
monterov kontaktnoi seti v zheleznodorozhnykh i tekhnicheskikh  
uchilishchakh. Moskva, Proftekhizdat, 1961. 57 p.

(MIRA 15:5)

(Electric railroads—Wires and wiring)  
(Railroads—Employees—Education and training)

SIDORKIN, V. O.

AID Nr. 993-9 19 June

ENERGY AND DENSITY OF IONS IN AN ELECTROMAGNETIC TRAP (USSR)

Lavrent'yev, O. O., L. I. Ovcharenko, B. G. Safronov, V. O. Sidorkin, and  
B. A. Nemashkalo. Ukrayins'kyi fizichnyi zhurnal, v. 8, no. 4, Apr 1963,  
452-459. S/185/63/008/004/006/015

The conditions for the confinement of low-density plasma in an electromagnetic trap have been investigated. The density and lifetime of electrons, the density and energy of ions, and the magnitude of the potential well were measured. The density of electrons in the trap at the moment of space-charge formation was determined by the injection current of electrons. The density of electrons after termination of the injection was determined from the electron emission occurring while the electrostatic trap was open, and the mean energy of the emerging ions, by the retarded-potential method. The energy of the potential well was determined by the passage time of krypton ions through the inner region of the trap. The actual ion energy is the sum

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ENERGY AND DENSITY OF IONS [Cont'd]

8/185/63/008/004/006/015

of the mean energy of the ions and the energy of the potential well. The ionic density was determined by the total number of ions emerging from all magnetic gaps and was of the order of  $10^{10}/\text{cm}^3$ . The results of the analysis are shown in graphs of the following: electron injection current versus time, electron density in the trap versus magnetic-field intensity, ion density versus injection-pulse duration, ion density versus magnetic field intensity, and mean energy of ions emerging from the trap versus: 1) the energy of electrons and 2) the energy distribution of ions emerging from the trap. [JA]

Card 2/2

BARANOV, A.S., Author: Baranov, A.S., Title: RECENT, G.A., Tech.

Comparative tests of the PD-3m, PD-4 and PD-5 cutter-loaders.  
Sber. KuzNEF. no. 10:40-51 '64. (U 24 18:9)

SIDORKINA, L. M.

Compiling ~~the~~ water balance for wooded and nonwooded river  
basins. Trudy Len. gidromet. ins.: no.11:208-219 '61.  
(MIRA 16:1)

(Forest influences)

IVANOV, K.Ye., doktor geogr. nauk, prof.; ROMANOV, V.V., kand. tekhn. nauk; SIDORKINA, L.M., kand.geogr. nauk; SHIFMAN, N.M., inzh.; BAVINA, L.G., inzh.; GALINOVSKAYA, I.A., inzh.; KOZHINA, Z.M., red.; CHEPELKINA, L.A., red.; SHATILINA, M.K., red.; BRAYNINA, M.I., tekhn. red.

[Hydrological calculation in the drainage of bogs and swampy soils] Gidrologicheskie raschety pri osushenii bolot i zabolochennykh zemel'. Pod red. K.E.Ivanova. Leningrad, Gidrometeoizdat, 1963. 447 p. \_\_\_\_ [Supplement no.3. Maps] Prilozhenie no.9. Karty. (MIRA 16:12)

1. Leningrad. Gidrologicheskiy institut.  
(Drainage)

SIDORKINA, M., Ya.,

Pa. 173T59

USSR/Medicine - Infectious Diseases 21 Aug 50

"Reinforcement of the Organism's Resistance to Pneumococci and Streptococci Under the Action of the Hormone of the Thyroid Gland," M. Ya. Sidorkina, Kazakh State Med Inst Issl V. M. Molotov, Alma-Ata

"Dok Ak Nauk SSSR" Vol LXXIII, No 6, pp 1287-1290

A. A. Vortkovich has shown that adm of sulfa drugs modifies functions of hypophysis and of thyroid gland with result that organism is impoverished in thyroid hormone. This suggested

173T59

USSR/Medicine - Infectious Diseases 21 Aug 50  
(Contd)

expt on combined effect of thyroldin and sulfa drugs, administered together to mice infected with pneumococci or streptococci. Results indicate introduction of thyroldin increases resistance to both infections when sulfa drugs are used. Bacteriostatic effect of sulfa drugs is not weakened by thyroldin. Some supplementary data indicate increased resistance to paratyphoid after adm of thyroldin.

173T59

97

116

Effect of thyroid hormone on antibody formation... M.  
Ya. Shumilov (V. M. Mokhov State Med. Inst., Kazan).  
Doklady Akad. Nauk S.S.S.R. 77, 357-60 (1951) - Thyroid  
hormone etc. itself is neither bacteriostatic nor bactericidal  
(pyogenic bacteria and Planer's paratyphoid organisms  
were used for tests). Tests with rabbits immunised by  
typhoid vaccine and previously given 10 mg. powder  
thyroid 3 times daily or 10-12 days showed that such  
animals gave an enhanced antibody titer (up to 142% after  
5 weeks) over controls. The animals were outstanding in  
the stability of the high titer in time. A considerable re-  
duction of mortality was achieved in a similar group studied  
with the pyogenic micrococcus. Hence thyroid hormone  
improves both the specific and general resistance of an  
animal to invasion. G. M. Kozlovskii.

1957



VOYTKEVICH, A.A.; SIDORKINA, M.Ya; KHONULLO, G.V.; GORDINA, S.N.;  
MUNAYBASOVA, G.A.; TOKAYEV, S.A.; NEGOVSKAYA, A.V.; SMIRNOV,  
Ye.P. (Alma-Ata)

Role of the thyroid hormone in the activity of the macrophage  
system. Probl. endokr. i gorm. 1 no.2:20-25 Mr-Apr '55 (MLBA 8:10)

1. Iz Kazakhskogo meditsinskogo instituta imeni V.M. Molotova i  
Voronezhskogo meditsinskogo instituta.

(MACROPHAGES, effect of drugs on,  
thyroxin)

(THYROXIN, effects,  
on macrophages)

SOV/124-58-7-7435 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 15 (USSR)

AUTHOR: Sidorkina, S.I.

TITLE: Some Problems of the Propagation and Effect of Shock Waves  
(Nekotoryye zadachi raspostraneniya i deystviya udarnykh voln)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of the Physical and Mathematical Sciences, presented to the MGU (Moscow State University), Moscow, 1957

ASSOCIATION: MGU (Moscow State University), Moscow

1. Shock waves--Propagation    2. Shock waves--Properties    3. Mathematics--Applications

Card 1/1

PA - 2107

AUTHOR: SIDORKINA, S.I.  
 TITLE: On Some Notions of an Aerosol. (Russian).  
 PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 3, pp 398-399  
 (U.S.S.R.).  
 Received: 3 / 1957

Reviewed: 3 / 1957

ABSTRACT:

An aerosol is a thin suspension of solids or droplets in a gas. Here the following assumptions are made: The particles are small and light and have no motion with relation to the gas. In the volume to be investigated particle density is assumed to be high, which increases the inertia of the medium (actually an average of 20.000 particles of dust is contained in 1 cm<sup>3</sup> of air in a large industrial city, and from 100 - 3 600 and sometimes up to 1400 droplets are contained in 1 cm<sup>3</sup> of clouds or fog.) The density of the aerosol can be written down as follows:  $\rho = \rho_0(1+k)$  ( $k > 0$ ). Here  $\rho_0$  denotes the density of the gas and  $k$  - a constant. The system of dynamic equation has the usual form in the case of a system of aerosol. The continuity equation for a gas with the density  $\rho_0$  is converted by multiplication with the constant quantity  $(1+k)$  into the analogous equation for an aerosol with the density  $\rho$ . This applies in the case of all gases. The equation of adiabaticity has the following shape in the case of the medium

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PA - 2107

On Some Motions of an Aerosol.

under investigation:  $\rho_0 c_v dT + ck\rho_0 dT + \rho p d(1/\rho) = 0$ . Here  $c$  denotes the thermal capacity of the particles, and  $c_p$  and  $c_v$  denote the specific thermal capacities of the gas. After integration  $p = Ap^z$  with  $z = (c_p + kc)/(c_v + kc)$  is obtained.

Here  $A$  denotes a constant which depends on the aerosol particles. The adiabaticity equation mentioned here has the usual shape.  $z$  denotes the ratio of the specific thermal capacity of aerosol. Also the equations for the conservation of mass and momentum do not change their shape when passing through the shock wave. Also the condition of the conservation of the energy current passing through the shock wave is conserved in its most general form. In all problems of gas dynamics a medium containing a large number of particles behaves like a gas the thermal capacity ratio of which is lower by  $z$  than in the case of pure gas.

Next, the problem of a strong explosion in an aerosol is investigated, and the change of the intensity of an explosion wave in such a medium is investigated. For pressure in the shock wave the following formula is obtained:

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On Some Motions of an Aerosol.

$p = (8 E_0 / r^{\nu}) / (V + 2)^2 (z + 1) \alpha(z)$ . In this connection

has the value 1, 2 and 3 for cylindrical and spherical explosions respectively.  $E_0$  is the energy liberated on the occasion of the explosion, and  $\alpha(z)$  denotes a composed function which is graphically explained by means of an attached diagram. In conclusion two spherical detonations with the same liberated energy  $E_0$  are investigated, and  $p_0$  is estimated at the same distance from the center of the explosion. The presence of thin particles in air diminishes pressure on the shock wave.

ASSOCIATION: Not given.  
PRESENTED BY:  
SUBMITTED:  
AVAILABLE: Library of Congress.  
Card 3/3

SIDORINA, S. I.

"Plane Problem on the Action of Shock Waves on a Free Massive Plate."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 2 Jun 58.

GERASIMOV, B.A.; SIBORKINA, T.D.

Purification of sulfur hexafluoride by the removal of impurities formed during an electric discharge. Zhur. prikl. khim. 37 no.9:2063-2066 S '64.

(MIRA 17:10)

KOSOVA, N.Ya.; LIFSHITS, F.B.; SIDORKINA, Ye.S.

Bronchopulmonary disorders in adolescents in primary tuberculosis.  
Probl. tub. 42 no.10:41-46 '64. (MIRA 18:11)

1. Moskovskiy nauchno-issledovatel'skiy institut tuberkuleza  
(direktor - kand. med. nauk T.P. Mochalova; zamestitel' direktor  
po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva  
zdravookhraneniya RSFSR.

S/081/61/000/008/007/017  
B110/B203

AUTHOR: Sidorkina, Yu. S., Shvarts, G. L.

TITLE: Corrosion resistance of high-alloy steels  
in sulfuric acid solutions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1961, 289,  
abstract 8/189 (3I189) (Vestn. tekhn. i ekon. inform.  
N. -i. in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min.  
SSSR po khimii, 1959, no. 3 (15), 10 - 14) ✓

TEXT: It is stated that OX23H28M3D3T (OKh23N28M3D3T) steel with  
<0.06% C content is not subject to intercrystallite corrosion and can be  
recommended for the production of welded constructions which are operated  
in sulfuric acid solutions. [Abstracter's note: Complete translation].

Card 1/1

SHVARTS, G.L., kand.khim.nauk; SIDORKINA, Yu.S.

Nickel-silicon alloy used in the construction of parts for sulfuric acid concentrators. Khim.prom. no.7:631-633 O-N '59.

(MIRA 13:5)

1. Nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya.  
(Nickel-silicon alloys)  
(Sulfuric acid industry--Equipment and supplies)

SLOMYANSKAYA, F.B., kand.tekhn.nauk [deceased]; SHVARTS, G.L.,  
kand.tekhn.nauk; KHEZUSHIN, F.F., kand.tekhn.nauk; ISTRINA,  
Z.F., inzh.; SIDORKINA, Yu.S., inzh.

Testing for intercrystalline corrosion of stainless austenite  
and austenite-ferrite steels. Trudy NIIKHIMTASH no.27:3-53  
'59. (MIRA 14:8)

(Steel, Stainless--Testing)

SHVARTS, G.L., kand.tekhn.nauk; SIDORKINA, Yu.S., inzh.

Alloys resistant to sulfuric acid and other corrosive media.  
Trudy MIKHIMASH no.27:54-61 '59. (MIRA 14:8)  
(Corrosion-resistant materials)

SHVARTS, G.L., kand.tekhn.nauk; SIDORKINA, Yu.S., inzh.

Materials for equipment used in some processes of the  
hydrometallurgy of nonferrous metals. Trudy NIIKHIMMASH  
no.27:62-74 '59. (MIRA 14:8)

(Corrosion-resistant materials)  
(Hydrometallurgy) (Nonferrous metals)

1. 42 pgs

S/184/60/000/004/006/021  
A109/A029

AUTHOR: Sidorkina, Yu.S., Graduate Engineer

TITLE: Influence of Thermal Treatment on Corrosion Cracking of Nickel-Chromium-Molybdenum Steels <sup>18</sup>

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1960, No. 4, pp. 17 - 20

TEXT: The article discusses the tendency of 0X23H28M3D3T (OKh23N28M3D3T) <sup>18</sup> and X23H28M3D3T (Kh23N28M3D3T) steels to develop dangerous corrosion cracks in sulfuric acid and the necessity of its prevention by thermal processing. Welded tubes 80 mm long and flat 60 x 40 mm guillotine-cut samples were tested at 100 h heating time in a boiling 40%-solution of H<sub>2</sub>SO<sub>4</sub>. Before tests the guillotined samples were subjected to X-ray inspections which showed some faults causing corrosion cracks during the tests. Longitudinal and cross samples of OKh23N28M-3D3T steel were subjected to 2 - 20% tensile tests on an MM-12A (IM-12A) device and then to a thermal treatment which proved that even riveting does not cause cracks. Metal welding near the built-up joint bead and parallel to it results in considerable residual stress (Ref. 1). The tests confirmed that most cracks run from the joint into the metal. After processing, flat samples were bent to an angle of 90° and pipes were flattened. Flat samples developed no cracks if

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